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Austria (Soviet Zone)

REPORT

Soviet Models Yal and R-1 River Mines.

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EVALUATION

DATE OF CONTENT

DATE OBTAINED

REFERENCES

PAGES 2 ENCLOSURES (NO. & TYPE)

REMARKS

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A notebook seen in a Soviet naval billet at 27 Kanalstrasse, Korneuburg, on 17 February 1951 contained the following data on Soviet models Yal and R-1 river mines:

Description of the Model Yal Mine:

Weight of charge: 0.20 kg.  
 Maximum mooring depth: 50 meters.  
 Minimum mooring depth: 2.5 meters.  
 Length of mooring cable: 53 meters, diameter 3.5 mm.  
 Maximum speed for minelaying: 21 knots.  
 Mine spacing: 20 meters.  
 Time required to aim the mine after laying: 10 to 20 minutes to dissolve the soluble sugar plug.  
 Length of mine: 675 to 680 mm.  
 Width of mine: 580 mm.  
 Height of mine: 970 to 980 mm.  
 Total weight of mine: 175 kg.  
 Weight of live mine: 62 kg.  
 Weight of anchor: 113 kg.  
 Time required for preliminary operations: 5 minutes.  
 Time required to set mine: 2.5 minutes.  
 Life of mine: 5 months.  
 The mine consists of the following parts:  
     Mine case with explosive charge.  
     Detonator chamber.  
     Detonator.  
     Detonator handle.  
     Safety cartridge.  
     Three galvanized horns with safety devices.  
     Soluble sugar-plug.  
     Dry cell battery (sic)  
     Mine anchor with mooring cable and mechanical depth-setting gear.  
     Sugar N 1 and N 2 (sic)  
     Length of plummet: 2.5 meters.  
     Weight of plummet: 10 kg  
     Length of one winding of plummet cord: 250 mm

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**CONFIDENTIAL**Description of the Model R-1 Mine:

Moored mine, weight 275 kg, weight of anchor 160 kg, weight of explosive charge 40 kg.  
Weight of live mine: 115 kg.  
Explosive charge: Trotyl (Trotil).  
Maximum speed for minelaying: 21 knots.  
Maximum mooring depth: 30 meters.  
Minimum mooring depth: 1.8 meters.  
Laying is done automatically with a depth setting of 0.5 to 0.2 meters.  
Length of mooring cable: 35 meters for cable 4.8 mm in diameter.  
21 meters for cable 6.2 mm in diameter.  
Mine spacing: 20 meters.  
Buoyancy reserve: 40 hours/km.  
Time required to aim the mine: 15 to 20 minutes.  
Rising speed of mine: 0.17 meter/sec.  
The mine consists of the following parts:  
Mine case with explosive-charge.  
Detonator chamber.  
Two galvanized horns.  
Safety device.  
Mechanism of mine.  
Anchor.  
Soluble sugar-plug with check rope and turnbuckle.  
Sugar.

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\*  Comment. The weight of 0.20 kg mentioned in connection with the charge of the model Ya-M mine is probably a mistake and should read 20 kg. The term buoyancy reserve of 40 hours per km in the description of the R-1 mine is not clear. The type designations of the two mines were not previously known.

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